

PATENT ABSTRACTS OF JAPAN

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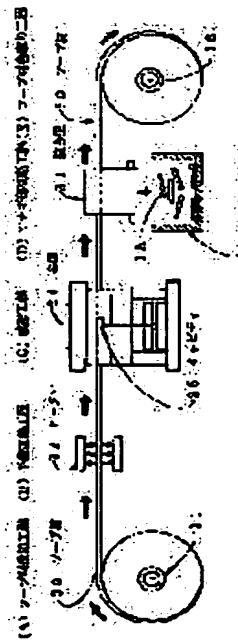
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(54) METHOD FOR MANUFACTURING LIGHT GUIDE PLATE

(57)Abstract:

PROBLEM TO BE SOLVED: To achieve the enhancement of optical characteristics and the stable production and mass-production of a product by automation.

SOLUTION: A light guide plate manufacturing method consists of a hoop material supply process (A) for supplying the light guide plate molding region of a hoop material 30 comprising a transparent plastic member to a preheater, a preheating process (B) for heating the hoop material to a predetermined temperature by the preheater (heater 32) to soften the same, a molding process (C) for supplying the preheated hoop material to the mold 24 of a



resin molding machine to subject the same to compression molding in a cavity 25 for a predetermined time and cooling and solidifying the molded one to obtain a molded article in a state connected to the hoop material 30 by a connection part, a connection part cutting process (D) for discharging the molded article from the resin molding machine to supply the same to a die 33 to cut the connection part and a taking-up process (E) for taking up the hoop material after the separation of the molded article. Further, a plurality of product cavities are arranged in the mold in plural rows to enable multi-impression molding. Automation, mass-production and cost reduction become possible.

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